

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**



Declaration  
Submitted  
with Initial  
Filing

OR



Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

**Attorney Docket Number**

**First Named Inventor**

*Ernest Rogers*

**COMPLETE IF KNOWN**

Application Number

Filing Date

Art Unit

Examiner Name

*Feb. 6, 2002*

**As the below named inventor, I hereby declare that:**

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

*Spherical And Polyhedral Shells With Improved  
Segmentation*

(Title of the Invention)

the specification of which



is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐ Customer Number  or Bar Code Label ☐ OR ☒ Correspondence address below

Name

Ernest Rogers

Address

1735 E. Cherokee Dr.

City

Pleasant Grove

State

Utah

ZIP

84062

Country

USA

Telephone

801-785-2291

Fax

801-785-8156

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name

(first and middle [if any])

Ernest Emanuel

Family Name

or Surname

Rogers

Inventor's  
Signature

Ernest Rogers

Date

Feb. 6, 2002

Residence: City

Pleasant Grove

State

Utah

Country

USA

Citizenship

USA

Mailing Address

1735 E. Cherokee Dr.

City

Pleasant Grove

State

Utah

ZIP

84062

Country

USA

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name

(first and middle [if any])

Family Name

or Surname

Inventor's  
Signature

Date

Residence: City

State

Country

Citizenship

Mailing Address

City

State

ZIP

Country

☐ Additional inventors are being named on the \_\_\_\_\_ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

**In the United States Patent and Trademark Office**

Appn. Title: Spherical and Polyhedral Shells with Improved Segmentation

Appn. Number:

Filing Date: 2002 Feb. 6

Applicant(s): Rogers, Ernest

Examiner:

Mailed: 2002 Feb. 6

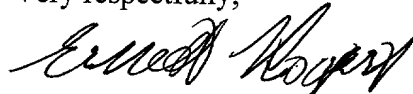
At: Pleasant Grove, Utah

**Declaration in Support of Accompanying Petition to Make Special  
Reason V—Enhancement of Environmental Quality  
and Reason VI—Will Result in Energy Savings**

In support of the accompanying Petition to Make Special, applicant declares as follows:

1. I am the applicant in the above-identified patent application.
2. The invention of the above application will materially enhance the quality of the environment of human kind by contributing to conservation of natural resources, and protection of air and water quality. The invention will also materially contribute to energy conservation, in the manner described below.
3. In the first regard, the invention of the above application is a method to build and manufacture structures while using less materials. In particular, the invention describes the construction of architectural shells without the use of framing materials, by relying on the improved stiffness of a curved surface. This will result in the elimination of framing lumber or other framing material in the shell. There is also an expected reduction of materials in the shell skin, by as much as 50%. The invention also provides cost savings, which will encourage its widespread adoption, with the result of substantial savings in the nation's forest resources, thereby enhancing water quality in forest areas, and improving air quality.
4. In the second regard, the invention is spherical in form. This form provides lower heat transfer by exposing less surface per volume than other conventional structures. Energy will be saved by improving energy efficiency of architectural structures, and of cryogenic storage facilities. The invention reduces the cost of such spherical structures, which will encourage increased use of spherical forms, with resulting savings in energy.
5. I further declare that all statements made herein of my own knowledge are true and that all statements made upon information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application and any patent issuing therefrom.

Very respectfully,

  
Ernest Rogers

1735 E. Cherokee Drive  
Pleasant Grove, UT 84062  
801-785-2291